L Number	Hits	Search Text	DB	Time stamp
1	583	342/463,458.ccls.	USPAT;	2003/11/25 09:13
_		<b>-,,</b>	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
4	2	342/463,458.ccls. and (RTD or (round adj trip adj delay) or	USPAT;	2003/11/25 09:13
		(roundtrip adj delay)) and search	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
_		242(462,450 ada ad (970 av / a ad adi bin adi dalar) a	IBM_TDB	7007/44/25 00 42
5	0	342/463,458.ccls. and (RTD or (round adj trip adj delay) or	USPAT; US-PGPUB;	2003/11/25 09:13
		(roundtrip adj delay)) and rescue	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
6	5	342/463,458.ccls. and (RTD or (round adj trip adj delay) or	USPAT;	2003/11/25 09:13
•		(roundtrip adj delay)) and track\$	US-PGPUB;	2000, 22, 25 05 125
		(, canda ip ac, , , , , and accept	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
7	17	342/463,458.ccls. and ((round adj trip) or roundtrip) and	USPAT;	2003/11/25 09:13
		search	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
	,	242/462 450 calc. and //warrad add trial as warradtrial and	IBM_TDB	2002/11/25 00:13
8	3	342/463,458.ccls. and ((round adj trip) or roundtrip) and	USPAT; US-PGPUB;	2003/11/25 09:13
		rescue .	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
9	30	342/463,458.ccls. and ((round adj trip) or roundtrip) and	USPAT;	2003/11/25 09:13
		track\$	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
10	86	342/463,458.ccls. and (range ranging) and search	USPAT;	2003/11/25 09:13
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
11	11	342/463,458.ccls. and (range ranging) and rescue	IBM_TDB USPAT;	2003/11/25 09:14
**	11	2.2, 100, 100, calls, and trange ranging/ and rescae	US-PGPUB;	2003/11/23 09.17
			EPO; JPO;	
			DERWENT;	
		,	IBM_TDB	
12	188	342/463,458.ccls. and (range ranging) and track\$	USPAT;	2003/11/25 09:14
			US-PGPUB;	
		,	EPO; JPO;	
			DERWENT;	
12	929	342/387 457 ccls	IBM_TDB	2002/11/25 00:12
13	323	342/387,457.ccls.	USPAT; US-PGPUB;	2003/11/25 09:13
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
14	12	342/387,457.ccls. and (RTD or (round adj trip adj delay) or	USPAT;	2003/11/25 09:13
		(roundtrip adj delay)) and search	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
<u> </u>			IBM_TDB	

J. Number	Hits	Search Text	DB	Timo ctamo
L Number	1	342/387,457.ccls. and (RTD or (round adj trip adj delay) or	USPAT;	Time stamp 2003/11/25 09:13
1.3	1	(roundtrip adj delay)) and rescue	US-PGPUB;	2003/11/23 09.13
		(Touridally adjudiay)) and rescue	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
16	11	342/387,457.ccls. and (RTD or (round adj trip adj delay) or	USPAT;	2002/11/25 00:12
16	11	(roundtrip adj delay)) and track\$	US-PGPUB;	2003/11/25 09:13
		(Touriddip adj delay)) and dack\$	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
17	27	342/387,457.ccls. and ((round adj trip) or roundtrip) and	USPAT;	2003/11/25 09:13
1/	27	search	US-PGPUB;	2003/11/23 03.13
		Search	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
18	4	342/387,457.ccls. and ((round adj trip) or roundtrip) and	USPAT;	2003/11/25 09:13
10	7	rescue	US-PGPUB;	2003/11/23 03.13
		rescue	EPO; JPO;	
1			DERWENT;	
			IBM_TDB	
19	37	342/387,457.ccls. and ((round adj trip) or roundtrip) and	USPAT;	2003/11/25 09:13
19	J,	track\$	US-PGPUB;	2003/11/23 09.13
		u acky	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
20	227	342/387,457.ccls. and (range ranging) and search	USPAT;	2003/11/25 09:13
20	22,	342/307,437.ccis. and (range ranging) and search	US-PGPUB;	2003/11/23 09.13
		•	EPO; JPO;	
			DERWENT;	
		·	IBM_TDB	•
21	37	342/387,457.ccls. and (range ranging) and rescue	USPAT;	2003/11/25 09:14
	,	s 12/357/157 leads. and (range ranging) and resear	US-PGPUB;	2005,11,25 05.11
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
22	375	342/387,457.ccls. and (range ranging) and track\$	USPAT;	2003/11/25 09:14
		, and the state of	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB .	
36	34	342/463,458.ccls. and (home homing)	USPAT;	2003/11/25 09:44
		, , , , , , , , , , , , , , , , , , ,	US-PGPUB;	, .
1			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
38	155	342/387,457.ccls. and (home homing)	USPAT;	2003/11/25 09:44
		- <del>-</del> ·	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	

L Number	Hits	Search Text	DB	Time stamp
138	8	((342/458   342/463).CCLS.) and (RTD or (round adj trip adj delay) or (roundtrip adj delay))	USPAT; US-PGPUB;	2003/11/25 15:01
		delay) or (rounderly day delay))	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
139	24	((342/457   342/387).CCLS.) and (RTD or (round adj trip adj	USPAT;	2003/11/25 15:02
		delay) or (roundtrip adj delay))	US-PGPUB; EPO; JPO;	
			DERWENT;	
			IBM_TDB	
140	0	342/463,458,387,457.ccls. and (home adj upon)	USPAT;	2003/11/25 15:03
			US-PGPUB;	
			EPO; JPO;	
			DERWENT; IBM_TDB	
141	1	342/\$.ccls. and (home adj upon)	USPAT;	2003/11/25 15:04
	_	, c, ,	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
143	4	AFF/A calc and (home add cons)	IBM_TDB	2002/11/25 15:04
142	4	455/\$.ccls. and (home adj upon)	USPAT; US-PGPUB;	2003/11/25 15:04
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	

"in" and "on" are stopwords.

L Number	Hits	Search Text	DB	Time stamp
171	125	342/126.ccls.	USPAT;	2003/11/25 16:29
			US-PGPUB;	
			EPO; JPO;	
	ŀ		DERWENT;	
			IBM_TDB	
172	8	342/126.ccls. and (home homing)	USPAT;	2003/11/25 16:29
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
173	19	342/126.ccls. and search	USPAT;	2003/11/25 16:30
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
474		242/426	IBM_TDB	2002/11/25 16:20
174	2	342/126.ccls. and rescue	USPAT;	2003/11/25 16:30
			US-PGPUB;	
			EPO; JPO; DERWENT;	
			IBM_TDB	
175	0	(342/126.ccls. and (home homing)) and (342/126.ccls. and	USPAT;	2003/11/25 16:30
1/3		search) and (342/126.ccls. and rescue)	US-PGPUB;	2003/11/23 10.30
1		search) and (542/120.cds. and rescue)	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
177	2	(342/126.ccls. and search) and (342/126.ccls. and rescue)	USPAT;	2003/11/25 16:31
	_		US-PGPUB;	
			EPO; JPO;	
	1		DERWENT;	
			IBM_TDB	
178	0	(342/126.ccls. and (home homing)) and ((342/126.ccls. and	USPAT;	2003/11/25 16:31
		search) and (342/126.ccls. and rescue))	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
179	4	(342/126.ccls. and (home homing)) and (342/126.ccls. and	USPAT;	2003/11/25 16:31
		search)	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
	1		IBM_TDB	

L Number	Hits	Search Text	DB	Time stamp
199	152	(search and rescue and 342/\$.ccls.) not 342/357\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/11/25 16:54

L Number	Hits	Search Text	DB	Time stamp
11	200	342/47-49.ccls.	USPAT;	2003/11/25 17:37
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
12	3	342/47-49.ccls. and (home or homing)	USPAT;	2003/11/25 17:36
:			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
13	49	342/47-49.ccls. and search	USPAT;	2003/11/25 17:36
			US-PGPUB;	
,			EPO; JPO;	
			DERWENT;	
14	ا ہ	343/47 40 cele and vecesse	IBM_TDB	2002/11/25 17:26
14	4	342/47-49.ccls. and rescue	USPAT;	2003/11/25 17:36
			US-PGPUB;	
	1		EPO; JPO;	
	:		DERWENT;	
15	4	(342/47-49.ccls. and search ) and (342/47-49.ccls. and rescue)	IBM_TDB USPAT;	2003/11/25 17:37
13	7	(372/77-73.ccis. and scarcit ) and (372/77-73.ccis. and rescue)	US-PGPUB;	2003/11/23 17.37
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	

L Number	Hits	Search Text	DB	Time stamp
33	751	340/825.49.ccls.	USPAT;	2003/11/26 16:41
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
32	91	340/7.5.ccls.	USPAT;	2003/11/26 16:41
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	2000/11/20010
34	15	340/7.5.ccls. and (home or homing)	USPAT;	2003/11/26 16:49
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
25	202	240/035 40 and and (harres on harring)	IBM_TDB	2002/11/26 16:40
35	202	340/825.49.ccls. and (home or homing)	USPAT;	2003/11/26 16:49
			US-PGPUB;	
			EPO; JPO; DERWENT;	
			IBM_TDB	
36	22	340/825.49.ccls. and homing	USPAT;	2003/11/26 16:49
30	22	340/023.45.CGS. and noming	US-PGPUB;	2003/11/20 10.79
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	

L Number	Hits	Search Text	DB	Time stamp
2	8	342/\$.ccls. and SART	USPAT;	2003/11/28 14:22
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
	•	(242 (4 selected CART) and (time distance management) DTD	IBM_TDB	2002/11/20 14:22
4	8	(342/\$.ccls. and SART) and (time distance range ranging RTD	USPAT;	2003/11/28 14:22
		(round adj trip adj delay))	US-PGPUB; EPO; JPO;	
			DERWENT;	
			IBM_TDB	
5	0	(342/\$.ccls. and SART) and (home homing)	USPAT;	2003/11/28 14:16
	·		US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
8	24	SART and transponder	USPAT;	2003/11/28 14:23
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
_			IBM_TDB	
9	10	(SART and transponder) and (distance range ranging RTD	USPAT;	2003/11/28 14:23
		(round adj trip adj delay))	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM TDB	1

L Number	Hits	Search Text	DB	Time stamp
12	1	"search and rescue transponder"	USPAT;	2003/12/08 17:15
		·	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
13	4	search adj rescue adj transponder	USPAT;	2003/12/08 17:24
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
_			IBM_TDB	
17	254	SART	USPAT;	2003/12/08 17:24
•			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
.	_	(0.07 *** ( **	IBM_TDB	
21	0	(SART with (distance range)) and (SART with processor)	USPAT;	2003/12/08 17:24
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
20	4	CART with mysesses	IBM_TDB	2002/12/00 17:25
20	4	SART with processor	USPAT;	2003/12/08 17:25
			US-PGPUB;	
			EPO; JPO;	
			DERWENT; IBM TDB	
18	. 7	SART with (distance range)	USPAT;	2003/12/08 17:25
10	,	SART With (distance range)	US-PGPUB;	2003/12/06 17:23
			EPO; JPO;	
			DERWENT;	
			IBM TDB	

L Number	Hits	Search Text	DB	Time stamp
18	17	search adj rescue with (phone telephone)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/12/10 11:13
19	8	search adj rescue with (cloths clothing)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/12/10 11:13

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			4		
7	INZZ	home OR homing	unrestricted	22217	<u>show titles</u>
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9	INZZ	1 AND 3 AND 7	unrestricted	0	-
10	INZZ	1 AND 7	unrestricted	0	-
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G General or Review.

### **Abstract**

The author presents an overview of the application of UHF and microwave technology to search and rescue. Automatic alerting and positioning of ships and aircraft in distress has been in use since the early 1980s with the development of the COSPAS-SARSAT satellite aided distress system. Final location has been by dedicated search and rescue resources, using direction finding equipment to home on VHF transmitters. The development of miniaturised, low cost radar transponders has made it possible for any ship to use its radar to home on survival craft. Further development could provide a viable product for use on lifejackets to aid **location** in man overboard situations. (5 refs).

### Descriptors

emergency-services; radar-applications; radar-equipment; transponders.

### Keywords

UHF technology; miniaturised transponders; microwave technology; search and rescue; ships; aircraft; COSPAS SARSAT satellite aided distress system; radar transponders; survival craft; lifejackets; man overboard situations.

include search strategy

#### Classification codes

B6320 (Radar equipment, systems and applications).

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